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TRILOBITA

COMPILED BY

J. T. TEMPLE, M.A., Ph.D.

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Struve, W. see Volk, M.

Stubblefield, C. J. see Tolun, N.

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Tchernov, G. A. see Chernov, G. A.

Tchernysheva, N. E. see Chernysheva, N. E.

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Tolun, N. & Ternek, Z. Mardin Bölgesinin Jeolojisi [Notes Géologiques sur la Région de Mardin]. Bull. geol. Soc. Turkey 3 2 1952: 1-14 [Turkish], 15-19 [French summary] pls. i-vii [Trilobita det. C. J. Stubblefield].

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Tomlinson, J. Gilbert- see Gilbert-Tomlinson, J.

Tschernov, G. A. see Chernov, G. A.

Tschernysheva, N. E. see Chernysheva, N. E.

Vaněk, J. Předběžná zpráva o paleontologických výzkumech několika lokalit v siluru a devonu Velké Prahy. Zprávy geol. výzkum. for 1961: 81-85.

Volk, M. Eine stark erweiterte Faunenliste der "Konglomerate" der Nereitenschichten des thüringischen Devons. Geol. Bl. NO-Bayern 11 4 1961: 204-211 text-fig. 1 [Trilobita det. R. Richter & W. Struve].

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Whittard, W. F. (2). The Ordovician Trilobites of the Shelve Inlier, West Shropshire Part VI. Palaeontogr. Soc. [Monogr.] 115 (for 1961) 1961: 197-228 pls. xxvi-xxxiii text-fig. 8.

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Whittington, H. B. (2). Middle Ordovician Pliomeridae (Trilobita) from Nevada, New York, Quebec, Newfoundland. J. Paleont. 35 5 1961: 911–922 pls. ic-cii text-figs. 1–5.

Whittington, H. B. (3). A Natural History of Trilobites. Natural History, New York 70 7 1961: 8-17 15 text-figs.

Whittington, H. B. (4). Problem in Species of Ordovician Trilobites [Abstract]. Prog. Ann. Meeting Amer. geol. Soc. 1961: 172A.

Wilson, D. W. R. see Raasch, G. O.

Wolfart, R. Stratigraphie und Fauna des älteren Paläozoikums (Silur, Devon) in Paraguay. Geol. Jb. 78 1961: 29–89 pls. ii-vii text-figs. 1–10 table 1.

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Zhuravleva, I. T. see Pokrovskaya, N. V.

II.—SUBJECT INDEX

GENERAL LITERATURE AND HISTORY

General works.—Cyclopygidae of Bohemia, Marek; Middle Ordovician Cheirurina of Oslo, Nikolaisen; Review of Permian invertebrate faunas, Branson; Survey of Siberian M. & U. Cambrian trilobites, Chernysheva (3); Cambrian of Spain, Lotze (1).

Popular works.—Fossils, Kaljo; Natural history of trilobites, Whittington (3).

Bibliography.—Reference to and quotation from two manuscript works (1936 and 1938) of E. V. Lermontova, Ivshin.

Abstracts.—Mirouse & Pillet; Pillet (2); Tomezykowa; Whittington (4).

Reviews.—Treatise, Kramarenko; 40 years of trilobite studies in U.S.S.R., Chernysheva (2).

Check list.—Traverse Group (M. Devonian of Michigan) invertebrates, Stumm.

Catalogue.—Type-specimens of fossils in Japan, Hanzawa et al.

Revision of faunas.—Revision of previous descriptions of Spanish Cambrian trilobites, Sdzuy (1).

Revision of nomenclature.—Lichas araneus Lindström and L. aranea Holzapfel not homonyms. Opinion 615; Sphaerocoryphe dentata Angelin 1854 designated as type of Sphaerocorphe A.; suppression of Sphaerometopus A., Opinion 614; Olenoides convexus Rasetti 1948 (non Lermontova 1940) renamed O. rasettii, O. granulatus R. 1948 (non Matthew 1899) renamed O. canadensis, Ivshin.

Additions to Official Lists.—Lichas araneus Lindström 1885, L. aranea Holzapfel 1895, Radiolichas Reed 1923, Opinion 615; Sphaerocoryphe Angelin 1854, S. dentata A. 1854, Opinion 614.

Designation of type species.—Sphaerocoryphe Angelin 1854—designation of S. dentata A. 1854, **Opinion 614.**

Selection of neotypes.—Platycoryphe vulcani (Murchison), Whittard (1); Symphysops mitrata (Novák), Marek.

Selection of lectotypes.—Acanthoparypha stubble-fieldi (Bancroft), Atractopyge atractopyge (M'Coy), Brongniartella bisulcata (M'Coy), B. minor (Salter), Kloucekia (Phacopidina) harnagensis (Bancroft), Dean (1); Aspidaeglina miranda Holub, Cyclopyge kossleri (Klouček), C. marginata Hawle & Corda. C. rediviva (Barrande), Heterocyclopyge pachycephala (H. & C.), Microparia (M.) brachycephala (K.), M. (M.) kloučeki (R. & E. Richter), M. (M.) peciosa H. & C., M. (Degamella) bergeroni (K.), M. (D.) gigantea (B.), M. (D.) princeps (B.), Pricyclopyge binodosa longicephala (K.), P. synophthalma (K.), Symphysops armata (B.), S. sulcata (B.), Marek; Ectenonotus westoni (Billings), Pliomerops canadensis (B.), Pseudomera barrandei (B.), Whittington (2); Hemiarges ptyonurus (Hall & Clarke), Whittington

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st of verse Mich. (1); Illaenopsis thomsoni (Salter), Stenopareia bowmanni (S.), Whittard (2); Metopolichas patriarchus (Wyatt Edgell), Whittard (1); Parabasilicus povisi (Murchison), Dean & Dineley; Tretaspis kiaeri radialis Lamont, Dean (2).

Preservation.—In Lockport (M. Silurian) of Ontario Encrinurus, Dalmanites and Acanthopyge are usually iron-stained, Calymene usually not, Best.

STRUCTURE

Terminology.—Anteroglabella (in front of preoccipital furrow), posteroglabella (occipital and preoccipital lobes), crenal tongue (tongue of free cheek between palpebral lobe and retrodivergent anterior facial suture), genal bar (longitudinal ridge on fixed cheek): all in Centropleura, Opik (1).

Segmentation.—Segmental alimentary diverticula described on thoracic pleurae, pygidium and cephalon of several Cambrian trilobites; ocular ridges and palpebral lobes considered (probably single though composite) segmental structures; pre-glabellar parts of cephalon may bear diverticula and hence are interpreted as pleurae of glabellar segments, i.e. not as pre-glabellar segments; telson of a new Ptychopariid genus inferred to have lain behind posterior end of pygidial axis, Öpik (2).

Glabella.—In Paraolenoides frontal lobe of glabella is drawn up into strong conical process, Ivshin.

Caeca.—Genal caeca interpreted as alimentary; similar structures described on thoracic segments and pygidium of Cambrian trilobites, Öpik (2).

Eyes.—In Cyclopygid genera development of eyes is variable, spp. both with and without anteriorly fused eyes being referred to same genus, Marek; "Nodular areas" on free cheeks of Barrandia resemble eyes but are without demonstrable facets, Whittard (2); No visual surfaces apparent on free cheeks of Asaphid protaspides, Evitt.

Palpebral lobes.—Palpebro-ocular ridges of Olenellids and *Papyriaspis* interpreted as a double structure representing probably the two diverticular veins of a single thoracic pleura, Öpik (2).

Genal spines.—Guizhoucephalina has both fixigenal and long curved librigenal spines, Chien.

Facial sutures.—Proparian sutures suggested in Acontheus burkeanus, Öpik (1); In Papyriaspis anterior sutures transgress and posterior sutures are parallel to caecal veins, Öpik (2); Marginal sutures of Concoryphe, Bailiaspis and Bailiella interpreted as derived from an Entomaspis-like condition by fusion of the two branches of facial sutures, Sdzuy (2).

Ventral sutures.—Sagittal and hypostomal sutures lacking in earliest Asaphid protaspides but appear subsequently, Evitt.

Hypostome.—Attribution of Cyclopygid hypostomes discussed, Whittard (1).

Vincular notches.—Structures interpreted as such in Microparia nudus, Whittard (1); In Cyclopygids,

Segmental specialisation.—Long pleural spines on 6th thoracic segment of Atractopyge dentata, Nikolaisen; In Centropleura phoenia 13 anterior thoracic segments have short pleurae, 3 posterior segments have long pleural spines (those on 14th segment longest), Opik (1).

Pygidium.—Pygidium and three posterior thoracic segments of Centropleura phoenix form a rigid non-articulating structure (pygidial unit), Öpik (1); Protopygidium of Asaphid protaspides interpreted as restricted to axis and surrounded by cephalon, Evit.

Telson.—Inferred from alimentary caeca of a new Ptychopariid genus that anal segment lay behind posterior end of pygidial axis, Öpik (2).

Ornament,—Gill's term prosopon preferred for (demonstrably) functionally significant ornament; external ornament contrasted with impression of alimentary structures on inner surface of test, Opik (2).

Tubercles.—Analysis of distribution of axial pygidial tubercles in 900 Encrinurus ornatus shows closer spacing in carbonate than shale specimens, tubercles considered light-sensitive, Best.

Musculature.—Cophalic muscle-sears of Ectillaenus perovalis, Whittard (2).

Alimentary system.—In Papyriaspis caeca interpreted as alimentary diverticula described on thoracic segments (propleural vein on anterior band, opistor pleural vein on posterior band), pygidia (regular veins of. thorax anteriorly, irregular and reticulate posteriorly), cephala (occipital diverticula corresponding to propleural and opistopleural veins, 3 glabellar diverticula arising at glabellar furrows and ramifying on fixed cheek, double parafrontal-ocular-palpebral diverticulum giving off the caeca of the preglabellar area and free cheek); in Agnostids scrobiculation of cephalon (and rarely pygidium) interpreted as coarse branching caeca comparable with diverticula of Burgessia; in Olenellids and Redlichia a sac-like diverticulum on cheek behind palpebral diverticulum, Opik (2).

Asymmetry.—Pygidial asymmetry in 5% of Encrinurus ornatus, Best; In pygidia of Glyptagnostus stolidotus alimentary caecum of left side only is connected with post-axial bulb, Öpik (2).

Teratology.—Healed scars in Centropleura phoenix, Öpik (1).

PHYSIOLOGY AND SEX

Size.—Suggested that trilobites may have been smaller in warm than in cold water, Spjeldnaes.

Enrolment.—Enrolled individuals of several Cyclopygids illustrated, vincular notches described, Marek.

Blindness.—Two modes of eye-reduction in Proetids (Waribole-mode and Piriproetus-mode, the latter accompanied by distal migration and straightening of suture and in advanced stages by loss of facets); eye-reduction in Proetids considered a pre-adaptation

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far ne loc (4) during L. Devonian life in nearshore facies to M. & U. Devonian life in dysphotic offshore facies; extinction of Proetids not due exclusively to blindness, **Erben (1)**.

DEVELOPMENT

Ontogeny.—Earliest protaspides of Asaphidae are smooth and subhemispherical with paired anterior and posterior spines, large spinous hypostome, facial suture but no sagittal or hypostomal sutures; subsequently anterior pits and axial furrows appear, hypostome becomes relatively smaller, s. &h. sutures appear, axial protopygidial segments develop; comparison made with similar but more advanced Remopleuridid protaspides; late Asaphid protaspides are not preserved, perhaps due to metamorphosis to early meraspid stages which have markedly different morphology, Evitt; Developmental stages of Paradoxides pradoanus, Solenopleuropsis thorati, Sdxny (2); Meraspid stages of Pricyclopyge binodosa and Microparia nudus, Whittard (1).

EVOLUTION AND CLASSIFICATION

Phylogeny.—Olenelloidae—Redlichioidae—Olenidae—Proetidae, showing two phases of eye-reduction, Erben (1); Polyphyletic nature of Conocoryphidae emphasized, Sdzuy (2); Balangia considered a link between Pagetiids and some polymerid trilobites, Chien.

Evolution.—Cephalic evolution of Encrinurinae, Hamada.

Genetics.—Eye-reduction in Proetids a preadaptation, Erben (1); In Encrinarus ornatus proportions of individuals showing 8-, 7- or 6-ring spacing of first 3 axial pygidial tubercles approximates Hardy-Weinberg law $(a^3+2ab+b^2)$, suggesting that 4- and 3-spacing of adjacent tubercles were due to alternative genes in an interbreeding community, Best.

Classification (principles of).—Generic criteria in Cyclopygidae, the development and degree of fusion of the eyes being considered not important, Marck; Six species each of a Cheirurid and of Illaenus recognized in a single Ordovician limestone block, Whittington (4).

ECOLOGY AND HABITS

Ecology.—Carbonate specimens of Encrinurus ornatus show closer spacing of axial pygidial tubercles than do shale specimens, Best; Eye-reduction in Proetids a (prejadaptation to life in dysphotic offshore facies or to a burrowing habit, Erben (1); Sandy and carbonate facies of Estonian Kunda stage (L. Ordovician), Männil; Centropleura considered pelagic, Öpik (1); Dollo's interpretation of Cyclopygids as upside-down surface swimmers rejected in favour of their being conventionally-orientated nekton, Marek; Six sympatric species at a single locality in each of two Ordovician genera, Whittington (4).

Stratigraphical distribution.—K. J. Müller's 1956 record of Middle Devonian trilobites and Upper Devonian conodonts in the same rock interpreted as being due to U. Devonian fillings of hollows in M. Devonian limestones, Reichstein.

Abundance.—15 genera, 75 species, 8 subspecies (all Proetids) have been recorded from Permian,

Vertical ranges.—Only 18 of the 150 known Lower Cambrian genera continue into Middle Cambrian, Pokrovskaya & Zhuravleva.

Extinction.—Extinction of Proetids due to failure of adaptation during Carboniferous shrinking of offshore facies; blindness not the exclusive cause of extinction, Erben (1),

Migration.—Bohemian Silurian trilobites in California, Churkin.

DISTRIBUTION AND FAUNAS

Cambrian.—China (Kweichow), Chien; Korea, Manchuria, Kobayashi (1); Spain, Lotze (1), (2); U.S.S.R., Borovikov et al.; U.S.S.R. (Arctic), Demokidov; U.S.S.R. (Kazakhstan, Siberia), Krys'kov et al.

Cambrian (Lower).—General, Pokrovskaya & Zhuravleva; China (Yunnan), Lu; Spain, Sdzuy (1); U.S.S.R. (Altai-Sayan), Zhuravleva et al.; U.S.S.R. (S. Krasnoyarsk), Repina.

Cambrian (Lower & Middle).—U.S.S.R. (Yakutsk), Chernysheva (1).

Cambrian (Middle).—Australia (Queensland), Carter & Öpik, Öpik et al.; Norway (Finnmark), Henningsmoen; Spain, Sdzuy (2); Spain (León), Comte; Turkey (Mardin), Tolun & Ternek; Turkey (South), Dean & Krummenacher; U.S.S.R. (Kazakhstan), Kashmir, Ivshin.

Cambrian (Middle & Upper).—Australia (Qld.), Öpik (1), (2); U.S.S.R. (Kazakhstan), Dobrynin & Sigitova, Makarychev.

Cambrian (Upper).—Malaya (Langkawi I.), Jones ; U.S.A. (Md., Va.), Canada (Quebec), Rasetti ; U.S.A. (Wyoming), Lochman & Hu.

Ordovician.—Britain, Whittard (2); Czechoslovakia (Bohemia), Marek; Lithuania, Paškevičius (1); Newfoundland (West), Whittington (4); Poland, Tomczyk.

Ordovician (Lower).—Australia (W. Australia), Gilbert-Tomlinson (1); Estonia (N.W.). Männil; Germany (Bavaria), Sdzuy (3); Norway (Finnmark), Henningsmoen; U.S.S.R. (Kazakhstan), Balashova (1); U.S.S.R. (Kazakhstan, S. Urals), Keller & Rozman; U.S.S.R. (Leningrad, Kazakhstan), Balashova (2); U.S.S.R. (Siberia), Krys'kov et al.; Venezuela, Frederickson.

Ordovician (Lower & Middle).—Australia (W. Australia), Gilbert-Tomlinson (2); Britain (Shropshire, Wales, etc.), U.S.A. (Va.), Whittard (1); U.S.S.R. (Kazakhstan), Keller & Rukavishnikova, Lisogor; U.S.S.R. (Yakutsk), Chugaeva.

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Ordovician (Middle).—Britain (Shropshire), Dean & Dineley; Britain (Shropshire etc.), Dean (1); Canada (Quebec, Newfoundland), U.S.A. (Nevada, N.Y.), Whittington (2); France (Loire inférieure), Cavet & Pillet; Germany (Rhineland), Jentsch & Stein; Norway (Oslo etc.), Nikolaisen; Portugal (Douro Litoral), Curtis; Spain (Cáceres), Ramírez; U.S.A. (Missouri), Esker; U.S.A. (Va.), Evit.

Ordovician (Middle & Upper).—Britain (N. England), Dean (2): Czechoslovakia (Prague), Röhlich.

Ordovician (Upper).—China (Szechwan), Cheng & Jian; Sweden (Scania), Glimberg.

Silurian.—Lithuania, Paškevičius (2); Poland, Tomczyk; Spain (León), Comte.

Silurian (Lower).—Britain (Scotland), Rolfe; Canada (Yukon), Raasch et al.; Paraguay (East), Wolfart.

Silurian (Middle).-Canada (Ontario), Best.

Silurian (? Middle or Upper).—U.S.A. (Calif.), Churkin.

Silurian (Middle & Upper).—Czechoslovakia (Prague), Vaněk.

Silurian (Upper).—Canada (N.W.T.), U.S.A. (N.Y.), Whittington (1); Czechoslovakia, Chlupáč (3); Paraguay (East), Harrington; Poland (Pomerania), Tomezykowa; U.S.A. (N.Y.), Leutze; U.S.S.R. (Kazakhstan), Maksimova.

Devonian.-Czechoslovakia (Prague), Vaněk.

Devonian (Lower).—Czechoslovakia, Chlupáč (3); France (Armorican massif), Fillet (2); Paraguay (East), Harrington; Portuguese Guinea, Ferro; U.S.S.R. (Khabarovsk), Bobylev & Levitsky.

Devonian (Lower & Middle).—Germany (Eifel), Struve; Germany (Harz), Bohemia, Lütke; Mauritania, Germany (Eifel), Pillet (1); U.S.S.R. (Arctic), Chernov; U.S.S.R. (Kazakhstan, Altai, Arctic), Maksimova.

Devonian (Middle).—Canada (Ontario), Fagerstrom; France (Pyrenees), Mirouse & Fillet, Destombes; Germany (Oberharz), Alberti; Spain (León), Comte; U.S.A. (Mich.), Stumm; U.S.A. (Ohio), Nickell.

Devonian (? Middle).—Germany (Thüringia), Volk.

Devonian (Middle & Upper).—Germany, Müller; Germany (Harz), Reichstein; Germany, France, etc., Erben (2).

Devonian (Upper).—Czechoslovakia (Moravia), Chlupáč (2).

Carboniferous.—Thailand, Kobayashi (2).

Carboniferous (Lower).—Czechoslovakia (Moravia), Chlupáč (1); Germany (Schwarzwald), Sittig; Spain (Ciudad Real), Almela et al.

Carboniferous (Upper), — Poland (Silesia), Bojkowski; Spain (Asturias), Hernández-Sampelayo,

Permian.-General, Branson.

III.—SYSTEMATIC INDEX

N.B.—Since all the species of the group are fossil, the † used elsewhere in the Zoological Record to indicate fossils is here omitted.

Abadiellidae a synonym of Doleroleninae p. 540 (258), Sdzuy (1).

Acadagnostus Kobayashi discussed and considered a synonym of Peronopsis p. 9, Ivshin.

Acanthalomina see Leonaspis.

Acanthoparypha projecta sp. n. p. 1241 text-figs. 1 A-B Ordovician (Middle) U.S.A. (Missouri), A. subcircularis (Bradley) for Pseudosphaerexochus s. B. restr. (one paratype excluded) p. 1241, Esker J. Paleont. 35 6 1961.

Acanthoparypha stubblefieldi (Bancroft) for Nieszkowskia s. B. lectotype chosen and figd. p. 314 pl. xlix figs. 1, 3-6, 11, A. mutica (Schmidt) for Cheirurus (N.) variolaris m. S. so referred p. 316, Dean (1).

Acanthopyge recorded p. 1030, Best.

Acastavinae characters p. 94, Pillet (1).

Acaste downingiae Murch. p. 70, Paškevičius (2).

Acaste cf. downingiae Murchison p. 374, Comte.

Acastella prima n. sp. [nom. nud.] p. 1006, Tomczykowa.

Acastella tiro R. & E. Richter p. 95 pl. i figs. 1–6 text-fig. 1, A. artesia ℓ R. & E. R. p. 97 pl. i figs. 7–9 text-fig. 2, Pillet (1).

Acastellina nolens n. (R. Richter) p. 299, Struve.

Acastidae discussed p. 93, characters of subfams. p. 94, Pillet (1).

Acastinae characters p. 94, Pillet (1).

Acidaspides borealis sp. n. p. 254 pl. liii figs. 9-10 Cambrian (Middle & Upper) U.S.S.R. (Siberia), Chernysheva New species of prehistoric plants . . . Part 2, Moscow 1960.

Acmarhachis acuta (Kobayashi) p. 109 pl. xxiii figs. 1-8, Rasetti.

Acontheus burkeanus sp. n. p. 135 pl. x figs. 1-7 text-fig. 46 Cambrian (Middle) Australia (Qld.), Öpik Bull. Bur. Min. Res. Aust. No. 53 1961.

Acrocephalina reticulata sp. n. p. 123 pl. iv figs. 13-15 text-fig. 3 Cambrian (Upper) China (Kweichow), Chien Acta palaeont. sinica 9 2 1961.

Actinopeltis wattisoni sp. n. p. 8 pl. iii fig. 2, pl. iv fig. 1 Ordovician (Middle) Portugal (Douro Litoral), Curtis Bol. Soc. geol. Portug. 14 1961.

Aeglina bergeroni Klouček type of Novakella gen. n. p. 170, A. hughesii Hicks a nomen dubium partly referable to Pricyclopyge binodosa (Salter) p. 176, A. grandis Salter may be synonym of Microparia nudus sp. n. p. 182, Whittard (1). Aeglina princeps Barrande type of Microparia (Degamella) subgen. n. p. 45, Marek.

Avalatus gen. n. [Olenidae] p. 62 for type A. cavernosus sp. n. p. 63 pl. i figs. 7-12, A. c. ? p. 65 pl. i fig. 6, A. ornatus sp. n. p. 64 pl. i figs. 13-14 Ordovician (Lower) U.S.S.R. (Kazakhstan), Lisogor Trud. geol. Inst. SSSR 18 1961.

Agnostacea see Blystagnostus gen. n.

Agnostacea see Delagnostus gen. n.

Agnostid gen. and sp. indet. p. 80 pl. x fig. 8, Dean & Krummenscher.

Agnostidae McCoy discussed and classified into Agnostinae and Glyptagnostinae [quae vide] pp. 53, 74, Öpik (1).

Agnostidae discussed p. 521 (239) and interpreted in wide sense to include Condylopyge, Peronopsis, Ciceragnostus and Leiagnostus, Sdzuy (1).

Agnostids—scrobiculate ornament interpreted as alimentary caeca comparable with those of *Burgessia* p. 412 ff. text-figs. 1–6, **Öpik** (2).

Agnostids p. 12, Carter & Öpik.

Agnostids p. 14, Öpik et al.

Agnostina-discussion of families p. 52, Opik (1).

Agnostinae discussed and taken to include Geragnostidae and Micragnostidae pp. 53, 74, Hastagnostus referred p. 76, Öpik (1).

Agnostus Brongniart discussed p. 74, A. sp. E [misprinted L pl. expl.] (A. cf. neglectus Westergaard) p. 75 pl. xxiii fig. 7 text-fig. 26 Cambrian (Middle) Australia (Qld.), $\mathbf{0}$ pik ($\mathbf{1}$).

"Agnostus" sp. A. p. 527 (245) pl. i fig. 26, "A." sp. B. p. 527 (245) pl. i figs. 27–28 Cambrian (Lower) Spain, **Sdzuy (1)**.

Agnostus? sp. indet. p. 114 pl. i figs. 10-11, Chien.

" Agnostus" sp. p. 44, Männil.

Agraulidae see Chekiangaspis.

Agraulidae see Mungyongia gen. n.

Agraulinae discussed with key to genera including Inoyellaspis gen. n. p. 79; Anomocare campbelli King referred to subfam. p. 124, Ivshin.

Agraulinae referred to Ellipsocephalidae and taken to include Agraulos and Proampyx p. 142, Öpik (1),

Agraulinae see Inoyellaspis gen. n.

Agraulos discussed with relations to Proampyx [q.v.] to which several spp. referred p. 144, Öpik (1).

Agraulos ceticephalus (Barrande) p. 5 (17), Tolun &

Agraulos longicephalus (Hicks 1872) p. 620 (338) pl. xxiii figs. 7-17 text-figs. 32-33, A. antiquus sp. n. Cambrian (Middle) Spain (León) p. 623 (341) pl. xxii figs. 17-19, pl. xxiii figs. 17-1-9, pl. xxiii figs. 17-16, text-fig. 35, Sdxny Abh. Akad. Wiss. Lit. Mainz [mat.-nat. Kl.] 1961 8.

Agraulus ceticephalus Barrande p. 363, Comte.

Alanisia Hupé discussed and diagnosis modified, A. hastata Sdzuy 1958 holotype figd. p. 585 (303) pl. xiii figs. 13–16, pl. xiv figs. 1–7, pl. xvi fig. 17 pars, text-fig. 23, Sdzuy (1).

Aldanaspis venusta sp. n. p. 246 pl. liii fig. 19 Cambrian (Middle) U.S.S.R. (Siberia), Lazarenko New species of prehistoric plants . . . Part 2, Moscow 1960.

Aldonaia Lermontova discussed with synonym Rinconia Hupé p. 572 (290), A. (Protaldonaia) subgen. n. for type A. (P.) morenica sp. n. p. 573 (291) pl. xii figs. 4, ? 5, text-fig. 15 Cambrian (Lower) Spain (Sierra Morena), Sdzuy Abh. Akad. Wiss. Lit. Mainz [mat.-nat. Kl.] 1961 7.

Aldonaiinae discussed and referred to Ellipsocephalidae p. 216, Kobayashi (1).

Alimbetaspis gen. n. [Olenidae] p. 121 for type A. kelleri sp. n. p. 122 pl. iii figs. 15-19 Ordovician (Lower) U.S.S.R. (Kazakhstan), Balashova Trud. geol. Inst. SSSR 18 1961.

Alokistocaridae a synonym of Papyriaspididae [q.v.] p. 149, Öpik (1).

Alokistocaridae see Bolaspidina gen. n.

Alueva gen. n. [Ellipsocephalinae] p. 583 (301) for type A. undulata sp. n. p. 584 (302) pl. xiii figs. 9-12 text-fig. 22 Cambrian (Lower) Spain, Sdzuy Abh. Akad. Wiss. Lit. Mainz [mat-nat. Kl.] 1961 7.

Amgaspidae discussed p. 88, Chernysheva (1).

Amgaspidae see Amgaspidella gen. n.

Amgaspidella gen. n. [Amgaspidae] p. 98 for type A. elongata sp. n. p. 99 pl. ix figs. 1-4, A. e. forma concava form. n. p. 101 pl. ix figs. 5-6, A. limbata sp. n. p. 102 pl. ix figs. 7-8 Cambrian (Middle) U.S.S.R. (Yakutsk), Chernysheva Trud. VSEGEI (ns) 49 1961.

Amgaspis discussed p. 88, A. medius Tchernysheva 1956 type figd. p. 89 pl. viii figs. 1-9, A. brevis T. type figd. p. 93 pl. viii figs. 10-116, A. rudis T. type figd. p. 95 pl. ix figs. 9-14, Chernysheva (1).

Amginouyia discussed p. 180, A. elegans Tchernysheva 1956 type figd. p. 180 pl. xix figs. 11-15, Chernysheva (1).

Amphilichas fryi sp. n. p. 195 pl. xxv figs. 18–19 Ordovician (Middle) Britain (Shropshire), Whittard Palaeontogr. Soc. [Monogr.] 114 (for 1960) 1961.

Amphion julius Billings type of Colobinion gen. n. [q.v.] p. 919, Whittington (2).

Amphoton Lorenz discussed with relations of A. (A.), A. (Fuchouia), A. (Sunia) [may be synonym of A.] and Dolichometopus p. 139, A. bensoni sp. n. [subgeneric placement uncertain but A. (A.) suggested] p. 136 pl. xi figs. la-7 text-fig. 4. A. ? arta sp. n. p. 141 pl. xiii fig. 10 text-fig. 48, A. sp. C [undescr.] p. 43, Cambrian (Middle) Australia (Qld.), Öpik Bull. Bur. Min. Res. Aust. No. 53 1961.

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Amphoton discussed p. 83, A. longus sp. n. p. 85 pl. vii figs. 9-12 Cambrian (Middle) U.S.S.R. (Yakutsk), Chernysheva Trud. VSEGEI (ns) 49 1961.

Amphoton spinigerum Whitehouse p. 14, A. sp. p. 13, Öpik et al.

Amphoton spinula Kobayashi for A. derceto var. s. K. p. 222 pl. xii fig. 19, A. ofr. s. pl. xii fig. 18, A. microlops K. discussed p. 222, Kobayashi (1).

Ampyx nasutus Dalm. p. 44, Männil.

Ampyx rostratus Sars p. 56, Paškevičius (1).

Ampyxina see Trinucleina n. gen.

Anadoxides Matthew a synonym of Metadoxides Bornemann p. 545 (263), Sdzuy (1).

Andalusiana gen. n. [Olenellidae (Holmiinae)] p. 528 (246) for type A. cornuta sp. n. p. 529 (247) pl. iii figs. 1-7 text-fig. 2 Cambrian (Lower) Spain (Sierra Morena), Kjerulfia? granulata Raw also referred, Sdzuy Abh. Akad. Wiss. Lit. Mainz [mat.-nat. Kl.] 1961 7.

Andrarina ouangondiana (Hartt) discussed p. 79, Dean & Krummenacher.

Andrarinidae—relations to Ceratopygidae [q.v.] p. 231, **Sdzuy** (3).

Angusteva Hupé discussed and referred to Ellipsocephalidae as synonym of Triangulaspis p. 512 (230), **Sdzuy** (1).

Anomocaraspis gen. n. [Anomocaridae] p. 125 for type Anomocare hundwarense Reed 1934 and including also A. dimotum, novatum, perfunctum, suspectum R. spp. p. 125 Cambrian (Middle) Kashmir, Ivshin Middle Cambrian trilobites of Kazakhstan Part I 1953.

Anomocare Angelin 1854 discussed p. 112 ff., lists of referred and excluded spp. p. 126 ff., A. lermontows Sp. n. p. 133 pl. viii figs. 1-9, 11, 12 Cambrian (Middle) U.S.S.R. (Kazakhstan); A. hundwarense Reed 1934 type of Anomocarispis gen. n. to which are also referred A. dimotum, novatum, perfunctum, suspectum R. spp. p. 125; A. arenivagum Meneghini referred to Anomocarioides? p. 120, A. campbelli King 1923 to Agraulinae p. 124, A. conjunctiva R. 1910 to Anomocarella p. 123, A. difforme Angelin to Inogellaspis gen. n. p. 83, A. dikelocephaloides K. 1930 to Koptura? p. 124, A. magnum Brögger 1878 to Anomocarioides? p. 119, A. nereis Walcott 1906 to Manchuriella? p. 124, A. persicum K. 1930 to M. p. 124, A. propinquum Mansuy 1916 to Psilaspis? p. 124, A. posillum Meneghini to Anomocarina? p. 120, A. balticum Hedström 1922 indeterminate p. 120, A. sp. 1 (and perhaps also A. sp. 2?) Lermontova 1936 MS. probably referable to Chondranomocare p. 121, Iyshin Middle Cambrian trilobites of Kazakhstan Part I 1953.

Anomocare ? angustum Whitehouse referred to Mapania [q.v.] p. 167, Öpik (1).

Anomocare? angustum Whitehouse may belong to Proceratopyge p. 230 n, Sdzuy (3).

Anomocarella — Anomocare conjunctiva Reed referred p. 123, Ivshin.

Anomocarella stenorachis sp. n. p. 231 pl. xiii fig. 11, A. cfr. brevifrons Kobayashi p. 232 pl. xii fig. 9, A. f gen. and sp. indt. p. 232 pl. xii fig. 22 Cambrian (Middle) S. Korea, Kobayashi J. Fac. Sci. Tokyo Univ. [21 13 2 1961.

Anomocarellidae accepted for Anomocarella and Mapania p. 164, Öpik (1).

Anomocaridae—relations with Ceratopygidae [q.v.] p. 231, **Sdzuy** (3).

Anomocaridae table I, Carter & Öpik.

Anomocaridae see Anomocaraspis gen. n.

Anomocaridae see Glyphaspellus gen. n.

Anomocarina Lermontova 1940 discussed p. 117, Anomocare pusillum Meneghini tentatively referred p. 120, Ivshin.

Anomocarina obscura sp. n. p. 229 pl. lii figs. 11–12 Cambrian (Middle) U.S.S.R. (Siberia), **Chernysheva** New species of prehistoric plants . . . Part 2, Moscow 1960.

Anomocarioides Lermontova 1940 discussed p. 137, A. polynensis sp. n. p. 140 pl. ix figs. 1-7 Cambrian (Middle) U.S.S.R. (Kazakhstan); A. ? arenivagum (Meneghini) and A. ? magnum (Brögger) transferred from Anomocare pp. 119, 120, Iyshin Middle Cambrian trilobites of Kazakhstan Part I 1953.

Anopolenus see Centropleura.

Antagmopleura subgen. n. see Chrondragraulos.

Antatlasia Hupé a synonym of Ellipsostrenua p. 578 (296), Sdzuy (1).

Antatlasiinae a synonym of Ellipsocephalinae p. 575 (293), **Sdzuy** (1).

Aojia see Meisterella gen. n.

Aojia insignis sp. n. p. 235 pl. 1 figs. 14-15 Cambrian (Middle) U.S.S.R. (Siberia), Ogienko New species of prehistoric plants . . . Part 2, Moscow 1960.

Apatokephalus discussed p. 76, A. replicare Lisogor 1954 [not seen] holotype figd. p. 78 pl. iii figs. 8–13 Ordovician (Lower) U.S.S.R. (Kazakhstan), Lisogor.

Apatokephalus serratus dubius Möberg 1906 p. 129 pl. ii fig. 3, Balashova (1).

Archaeops Hupé a synonym of Saukiandops [q.v.] p. 205, Kobayashi (1).

Arthricocephalus duyunensis sp. n. p. 117 pl. i figs. 19-20, pl. ii figs. 5-10 Cambrian (Lower) China (Kweichow), Chien Acta palaeont. sinica 9 2 1961.

Asaphellus alimbeticus sp. n. p. 135 pl. ii figs. 4-7 Ordovician (Lower) U.S.S.R. (Kazakhstan), Balashova Trud. geol. Inst. SSSR 18 1961.

Asaphellus ? inostranzevi (Lam.) p. 130, Balashova (2).

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Asaphid [majority may be Isotelus] protaspides and later growth-stages p. 988 pl. exvii figs. 1-23, pl. exviii figs. 1-39 text-figs. 1-3, 4-6 (comparison with Remopleurididae), Evitt.

Asaphid gen. indet. pp. 28, 29, Gilbert-Tomlinson

Asaphid trilobites indet. table, Gilbert-Tomlinson (1).

Asaphidae—relations to Ceratopygidae [q.v.] p. 230, Sdzuy (3).

Asaphidae p. 158, Chugaeva.

Asaphidae p. 1637, Cavet & Pillet.

Asaphiscidae see Tankhella gen. n.

Asaphiscidae see Vernaculina gen. n.

Asaphus goniocercus Meek—proposed setting aside as type of Xenostegium [q.v.], may belong in Trigonocerca p. 332, Ross.

Asaphus nobilis Barr. p. 422 pl. lxxi fig. A, A. sp. p. 420, Ramírez.

Asaphus platyurus Ang. p. 54, A. cf. cornutus Dalm. p. 56, Paškevičius (1).

Asaphus powisi Murchison referred to Parabasilicus [q.v.] p. 374, Dean & Dineley.

Asaphus (A.) raniceps (Dalm.) p. 44, Männil.

aff. Asaphus raniceps (Dalman) table p. 32, Gilbert-Tomlinson (1).

Aspidaeglina Holub 1911 discussed p. 28, A. miranda H. lectotype chosen and figd. p. 29 pl. i figs. 18–19, Marek.

Aspidaeglina—Pricyclopyge[q.v.] may be a synonym p. 172, Whittard (1).

Asteropyge laciniatus Roemer p. 409, Comte.

Asthenopsis sp. p. 13, Öpik et al.

Atractopyge brevicauda (Angelin 1854) p. 296 pl. ii figs. 6-7, A. dentata (Esmark 1833) cast of lectotype figd. with synonyms Cybele grewingki [excluding pygidium—to A. kutorgae] and C. revoliensis Schmidt 1881 p. 298 pl. iii figs. 1-2, pl. iv figs. 1-4, A. gracilis sp. n. Ordovician (Middle) Norway (Oslo, Hadeland) p. 302 pl. iv figs. 5-9, A. kutorgae (S. 1881) p. 304 pl. ii figs. 8-9, A. aff. k. p. 305 pl. ii fig. 10, A. sp. p. 306, Nikolaisen Norsk geol. Tidsskr. 41 2-4 1961.

Atractopyge sp. p. 318 pl. xlix fig. 13, A. atractopyge (M'Coy) lectotype chosen p. 319, Dean (1).

Aulacopleura socialis Poulsen 1934 p. 471 text-figs. 4 (1-9), Raasch et al.

Aulacopleura (Paraulacopleura) uralica sp. n. (Maksimova) [undescr.] p. 1487, Chernov.

Bailiaspis Resser discussed and divided into two spp.-groups: (1) elegans Hartt, dalmani Angelin (synonym bufo Hicks), venusta Resser, prominens R., tuberculata Lake; (2) glibrata A., nicholasi L., inflata L. p. 675 (393), B. meridiana Schuy 1958 holotype figd. p. 676 (394) pl. xxxiv fig. 5 text-fig. 53, 3dxuy (2).

Bailiaspis dalmani (Angelin) p. 693 (411), Lotze (2).

Bailiella Matthew discussed and divided into two spp.-groups: (1) lyelli Hicks and emarginata Linnarsson; (2) levyi Mun.-Chalm. & Berg. and lantenoisi Mansuy (with synonym ulrichi Endo & Resser p. 671n), attribution of baileyi Hartt uncertain p. 671 (389), B. cf. levyi p. 672 (390) pl. xxxii figs. 8-9, B. barriensis Sdzuy 1958 holotype figd. p. 673 (391) pl. xxxiii figs. 1-4, ? 5 text-fig. 52, 8dxuy (2).

Balangia gen. n. [Balangiidae] for type B. balangensis sp. n. p. 115 pl. i figs. 13-18 Cambrian (Lower) China (Kweichow), Chien Acta palaeont. sinica 9 2 1941.

Balangiidae fam. n. [Corynexochida] p. 115 for Balangia, Chien Acta palaeont. sinica 9 2 1961.

Baltagnostus related to Diplagnostidae p. 53, **Öpik** (1).

Barrandia discussed p. 221, B. homfrayi Hicks holotype figd. p. 222 pl. xxxii figs. 6-11, pl. xxxii figs. 1-11, B. tasgarensis sp. n. p. 225 pl. xxxiii figs. 1-2, B. bianularis sp. n. p. 225 pl. xxxiii figs. 3-5, B. parabolica sp. n. p. 225 pl. xxxiii figs. 6-7 Ordovician (Middle) Britain (Shropshire), B. cordai (M'Coy) holotype figd. p. 226 pl. xxxiii fig. 8, B. radians (M'Coy) holotype figd. p. 227 pl. xxxiii figs. 10-12, B. cf. r. p. 227 pl. xxxiii fig. 9, Whittard Palaeontogr. Soc. [Monogr.] 115 1961.

Basidechenella soo Dechenella.

Basocephalus gen. n. [Dorypygidae] p. 60 for type B. nominalis sp. n. p. 62 pl. v figs. 8-16, B. weberi sp. n. p. 65 pl. v figs. 1-7 Cambrian (Middle) U.S.S.R. (Kazakhstan). Ivshin Middle Cambrian trilobites of Kazakhstan Part I 1953.

Bathyholcus gen. n. [Ptychoparioid, affinities obscure] p. 109 for type B. gaspensis sp. n. p. 110 pl. xxiii figs. 18-23, text-fig. 1a, B. sulcatus sp. n. p. 110 pl. xxiii figs. 24-26 Cambrian (Upper) Canada (Quebec) and U.S.A. (Md.), Rasetti J. Paleont. 35 1 1961.

Bathyuriscellus discussed p. 68, B. quadratus sp. n. p. 70 pl. vii figs. 4-8 Cambrian (Lower) U.S.S.R. (Yakutsk), Chernysheva Trud. VSEGEI (ns) 49 1961.

Bathyuriscellus firmus sp. n. p. 214 pl. l figs. 5-6 Cambrian (Lower) U.S.S.R. (Siberia), Ogienko New species of prehistoric plants . . . Part 2, Moscow 1960.

Bathyurus sp. p. 83 pl. iv fig. 9, Lisogor.

Bellaspis billingsi see Undetermined cranidium no. 2.

Beltella sp. p. 94, Henningsmoen.

Bergeroniaspis see Bergeroniellus group.

Bergeroniellus group for Bergeroniellus and Bergeroniaspis referred to Paradoxididae p. 98,

Bicornipyge gen. n. [Ceratopygidae] p. 72 for type B. bicornie sp. n. p. 73 pl. ii figs. 5-17, pl. iii figs. 1-4 Ordovician (Lower) U.S.S.R. (Kazakhstan), Lisogor Trud. geol. Inst. SSSR 18 1961,

Binodaspis discussed p. 246, B. rara sp. n. p. 247 pl. vii figs. 1-3 Cambrian (Lower) U.S.S.R. (Yakutsk), Chernysheya Trud. VSEGEI (ns) 49 1961.

Biolgina sp. p. 158, Chugaeva.

Blountia carlotta Lochman excluding DeLand & Shaw 1956 pl. 63 fig. 8 (to B. aff. B. janei) and including Kingstonia sp. indet. D. & S. p. 132 pl. xxviii figs. 31-48, Lochman & Hu.

Blountia virginica sp. n. p. 110 pl. xxi figs. 1-5, 8 Cambrian (Upper) U.S.A. (Va.), Rasetti J. Paleont. 35 1 1961.

Blystagnostus gen. n. [Agnostacea incertae familiae] for type B. lacimiatus sp. n. p. 95 pl. xxiii figs. 5-6 text-fig. 34 Cambrian (Middle) Australia (Qld.), **Öpik** Bull. Bur. Min. Res. Aust. No. 53 1961.

Boeckaspis kasachstanica [altered to kasachstanicus by hand in offprint from author] sp. n. p. 119 pl. iv figs. 16-17 Ordovician (Lower) U.S.S.R. (Kazakhstan), Balashova Trud. geol. Inst. SSSR 18 1961.

Boeckaspis sp. p. 94, Henningsmoen.

Boedaspis ? solis (Öpik) p. 44, Männil.

Bolaspidella wellsvillensis (Lochman & Denson) p. 138 pl. xxx figs. 1-5, B. sp. undet. p. 138 pl. xxx figs. 15-16; B. sp. Palmer 1955 referred to Densonella praesemele p. 139, Lochman & Ru.

Bolaspidina Lermontova gen. n. [Alokistocaridae] p. 241 for type B. insignis L. sp. n. p. 242 pl. liii figs. 6-8 Cambrian (Middle & Upper) U.S.S.R. (Siberia), Chernysheva New species of prehistoric plants... Part 2, Moscow 1960.

Borthaspidella Rasetti 1954 may be a synonym of Illaenopsis p. 219, Whittard (2).

Brachymetopina see Brachymetopus.

Brachymetopus (Brachymetopina) silvaticus sp. n. p. 230 pl. xxiv figs. 3-7, B. (nov. subgen. aff. Brachymetopus) sp. p. 234 pl. xxiv fig. 8 Carboniferous (Lower) Germany (Schwarzwald), Sittig Jh. geol. Land-samt Baden-Württemberg 5 1961.

Brachymetopus uralicus p. 11, Hernández-Sampelayo.

Brassicicephalus jakuticus sp. n. p. 226 pl. liii figs. 12–13, B. planus sp. n. p. 227 pl. liii figs. 14–15 Cambrian (Upper) U.S.S.R. (Siberia), Lazarenko New species of prehistoric plants . . . Part 2, Moscow 1960.

Broeggerolithus broeggeri (Bancroft) p. 373 pl. xx fig. 4, Dean & Dineley.

Brongniartella discussed p. 345, B. bisulcata (M°Coy) so attributed lectotype chosen and figd. p. 346 pl. liv figs. 1-2, 4, 8-9, pl. lv figs. 1, 4, 7, B. caradociana sp. n. including Homalonotus biserratus Reed 1918 MS. partim p. 349 pl. liii fig. 12, pl. liv figs. 3, 5, 7, 10, pl. lv fig. 2, B. minor (Salter) for H. bisulcatus var. β m. S. lectotype chosen with synonym B. parva Harper p. 351 pl. liv fig. 6, pl. lv

fig. 11, B. m. subcarinata subsp. n. p. 352 pl. lv figs. 6, 8, ? 13, B. edgelli (Salter) for H. e. S. holotype refigd. p. 353 pl. lv figs. 9, 12, B. sp. p. 354 pl. lv fig. 5 Ordovician (Middle) Britain (Shropshire), Dean Bull. Brit. Mus. (nat. Hist.) [Geol.] 5 8 1961.

Brongniartella aff. minor (Salter) p. 374 pl. xx figs. 3, 7, Dean & Dineley.

Bulaiaspis may belong to Termierellinae p. 213, Kobayashi (1).

Bumastus bouchardi (Barr.) p. 81, Vaněk.

Burmeisteria (Digonus) armoricanus [nom. nud.] p. 218, Pillet (2).

Burmeisteria (Digonus) guineensis sp. n. p. 745 pl. iv figs. 1-6, pl. v figs. 1-7, pl. vi figs. 1-7, pl. vii figs. 1-5, pl. viii figs. 1-4 text-figs. 3-5 Devonian (Lower) Portuguese Guinea, Ferro Garcia de Orta 9 4 1961.

Calliops sp. indet. p. 159, C. sp. p. 160, Chugaeva.

Calybole see Cyrtosymbole.

Calymene boettneri sp. n. p. 73 pl. i figs. 1–3 Silurian (Upper), C. sp. indet. p. 76 pl. iii fig. 4 Devonian (Lower) Paraguay (East), **Harrington** Contrib. cient. Fac. Cienc. exact. Univ. Buenos Aires [E Geol.] 1 1950.

Calymene boettneri Harrington 1950 diagnosis, horizon dated Silurian (Lower) p. 72 pl. iv figs. 3-5, C. sp. aff. b. p. 73 pl. iv figs. 6-7, C. sp. p. 71 pl. iv fig. 2, Wolfart.

Calymene aff. carlops Lamont, C. aff. nodulosa Shirley, C. sp. p. 252, Rolfe.

Calymene (C.) interjecta africana subsp. n. p. 101 pl. ii figs. 1-3 text-fig. 4 Devonian (Lower) Mauritania, Pillet Ann. Fac. Sci. Univ. Dakar 6 1961.

Calymene prenaica Bal. p. 67, C. blumenbachi var. asiatica Veb. p. 70, Paškevičius (2).

Calymene tristani Brongn., C. sanmigueli Linares, C. aragoi Rou., C. sp. p. 420 ff., Ramírez.

Calymene recorded p. 1030, C. glabella pl. exxiv fig. 12 pars, Best.

Calymene sp. p. 1433, Bobylev & Levitsky.

Calymene sp. p. 50 pl. xvi figs. 4-5, Leutze.

Calyptaulax actonensis sp. n. p. 328 pl. 1 figs. 11, 13-14, pl. li figs. 1-2 Ordovician (Middle) Britain (Shropshire), C. (subgen. A) Struve discussed p. 330, Dean Bull. Brit. Mus. (nat. Hist.) [Geol.] 5 8 1961.

Carbonocoryphe egregia sp. n. p. 229 pl. i fig. 6 Carboniferous (Lower) Czechoslovakia (Moravia), Chlupáč Věstn. Úst. úst. geol. 36 3 1961.

Carolinites popovkiensis sp. n. p. 130 text-figs. 1a-2 Ordovician (Lower) U.S.S.R. (Leningrad), C. also recorded from Kazakhstan and N.E. U.S.S.R., Balashoya Paleont, Zhurnal 3 1961. C. a Öpil pl. v text figs. p. 4 Bur

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Centropleura Angelin 1854 discussed p. 99, C. (Anopolenus) and C. (Clarella) discussed p. 101, Luhops a junior synonym p. 104, C. loveni Angelini Mestergaard discussed p. 104, C. oriens Tschernyscheva possibly a synonym of C. angustata W. p. 103, C. phoenix sp. n. for C. n. sp. Opik 1956 p. 105 pl. ii figs. A-C, pl. iii figs. 1-6, pl. iv figs. 1-3b, pl. v figs. A-E, pl. vi figs. A-C, pl. vii figs. 1-6, contains sp. n. p. 131 pl. iv figs. 1-4, pl. xiv fig. 6, text-figs. 35, 37-43, C. sonax sp. n. p. 131 pl. iv figs. 1-4, pl. x fig. 10 text-fig. 44, C. sp. nov. [undesor.] p. 48 Cambrian (Middle) Australia (Qld.), Opik Bull. Bur. Min. Res. Aust. 53 1961.

Centropleura sp. pleura with alimentary caeca p. 426 pl. lxviii figs. 3-4 text-fig. 13, Öpik (2).

Centropleuridae discussed and considered independent of Paradoxididae p. 96, Öpik (1).

Ceratocephala (Leonaspis?) semiglabra Poulsen 1934 pygidium described p. 474 text-figs. 4 (10-18), Raasch et al.

Ceratocephala (Odontopleura) sp. p. 210, Volk.

Ceratonurus krejčii (Novák) p. 83. Vaněk.

Ceratopyge forficula [cf. on pl.] Sars 1835 p. 130 pl. iii figs. 5-7, Balashova (1).

Ceratopygidae discussed p. 230, may form suborder with Asaphidae, Olenidae, Papyriaspididae, Anomocaridae, Remopleuridaeea (sensu Harrington et al. 1959), ? Andrarinidae p. 231, **Sdzuy** (3).

Ceratopygidae discussed p. 68, Lisogor.

Ceratopygidae see Bicornipyge gen. n.

Ceratopygidae see Kaufmannia gen. n.

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Heterocyclopyge gen. n. [Cyclopygidae] for type Cyclopyge pachycephala Hawle & Corda 1847 lectotype chosen with synonym Selenoptychus rotundatus H. & C.

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Kingstonia sp. undet. DeLand & Shaw 1956 referred to Blountia carlotta p. 132, Lochman & Hu.

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Komaspidella lata sp. n. p. 114 pl. xxi figs. 18–24, K. laevis sp. n. p. 115 pl. xxi figs. 6–7, 9–11 Cambrian (Upper) U.S.A. (Va.), Rasetti J. Paleont. 35 1 1961.

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Leiagnostus alimbeticus sp. n. p. 110 pl. i figs. 1–2 Ordovician (Lower) U.S.S.R. (Kazakhstan), Balashova Trud. geol. Inst. SSSR 18 1961.

Leiopyge Hawle & Corda discussed and referred to Glyptagnostinae p. 85, L. laevigata Dalman p. 85 pl. xxi figs. 5-9b, L. l. armata (Linnarsson) p. 87 pl. xxi figs. 10a-b, pl. xxii figs. 1-4; L. exilis Whitehouse [excluding pygidium] and Phoidagnostus limbatus W. belong to L. l. or L. l. a. p. 86, Öpik (1).

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Lejopyge laevigata (Dalm.) p. 97, Makarychev.

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Linguagnostus Kobayashi 1939 emend. discussed and considered a subgenus of *Diplagnostus* [q.v.] pp. 29–33, Ivshin.

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cf. Liostracina sp. p. 142 pl. xxx figs. 49-50, Lochman & Hu.

Liostracus orientalis sp. n. p. 243 pl. lii figs. 9-10 Cambrian (Middle) U.S.S.R. (Siberia), Lazarenko New species of prehistoric plants . . . Part 2, Moscow 1960.

Litagnostus referred to Pseudagnostidae p. 54, Önik (1).

Llanoaspis convexifrons sp. n. p. 115 pl. xxii figs. 1-6 Cambrian (Upper) U.S.A. (Va.), Rasetti J. Paleont. 35 1 1961.

Lobopyge docekali Vaněk p. 84, Vaněk.

Loganopeltis nanus sp. n. p. 140 pl. i figs. 19–20 Ordovician (Lower) U.S.S.R. (Kazakhstan), Balashova Trud. geol. Inst. SSSR 18 1961.

Loganopeltis sp. indet. p. 158, Chugaeva.

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Lonchocephalus f vetus sp. n. p. 248 pl. liii fig. 11 Cambrian (Middle) U.S.S.R. (Siberia), Chernysheva New species of prehistoric plants . . . Part 2, Moscow 1960.

Lonchodomas portlocki (Barrande) p. 84, Glimberg.

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Lopnorites fragilis Troedsson, L. ex gr. rectispinatus T., L. baikonuricus sp. n. [undescr.], L. sp. 1, L. sp. 2 p. 1424, IVSHIN in Dobrynin & Sigitova.

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Lusatiops discussed with synonym Jalonella Hupé p. 565 (283), L. lusaticus reconstruction discussed, L. ribotanus R. & E. Richter 1948 with synonym Termierella celtiberica Hupé [type of J.] p. 566 (284) pl. viii figs. 2-14 text-fig. 13, L. sp. p. 569 (287) pl. viii figs. 15-16, Sdzuy (1).

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Malungia gen. n. [Dolerolenidae] p. 320 for type M. laevigata sp. n. p. 321 pl. iii figs. 1-5, M. malungensis sp. n. p. 328 pl. iii figs. 6-7, M. sp. p. 328 pl. iii figs. 6-7, M. sp. p. 328 pl. iii fig. 8 Cambrian (Lower) China (Yunnan), Lu Acta palaeont. sinica 9 4 1961.

Manchuriella—Anomocare persicum King and tentatively A. nereis Walcott referred p. 124, Ivshin.

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Mapania angusta (Whitehouse) p. 13, Opik et al.

Maryvillia arion Walcott p. 116 pl. xxi figs. 14-15, Rasetti. Megagraulos ? semicircularis sp. n. p. 230 pl. xiii figs. 1-4, ? 12 Cambrian (Middle) S. Korea, Kobayashi J. Fac. Sci. Tokyo Univ. [2] 13 2 1961.

Megalaspis belemnurus White—proposed designation as type of Xenostegium [q.v.] p. 332, Ross.

Megalaspis planilimbata Ang. p. 54, Paškevičius (1).

Megistaspidella p. 27, Gilbert-Tomlinson (2),

Megistaspis p. 28, Gilbert-Tomlinson (2).

Meisterella gen. n. [Familia incerta—compared with Aojia] p. 160 for type M. meisteri sp. n. p. 161 pl. xi figs. 3-6 Cambrian (Middle) U.S.S.R. (Kazakhstan), Iyshin Middle Cambrian trilobites of Kazakhstan Part I 1953.

Mesodema Whitehouse a synonym of Redlichia p. 195, Kobayashi (1).

Metadoxides Bornemann discussed with synonym Anadoxides Matthew, M. richterorum sp. n. p. 545 (263) pl. v figs. 20-22, pl. vi figs. 1-14 text-fig. 5, M. armatus (Meneghini 1881) p. 548 (266) pl. v fig. 23 Cambrian (Lower) Spain (León), Sdzuy Abh. Akad. Wiss. Lit. Mainz [nat.-mat. Kl.] 1961 7.

Metadoxidinae a synonym of Doleroleninae p. 540 (258), **Sdzuy (1)**.

Metagraulos sampoensis sp. n. p. 230 pl. xiii figs. 5–8 Cambrian (Middle) S. Korea, Kobayashi J. Fac. Sci. Tokyo Univ. [2] 13 2 1961.

Metascutellum pustulatum (Barr.) p. 83, Vaněk.

Meteoraspis boulderensis DeLand librigena and hypostome ascribed p. 141 pl. xxviii figs. 20-29, M. globosa (Miller) librigena and young stages p. 141 pl. xxviii figs. 7-19, M. intermedia sp. n. p. 142 pl. xxviii figs. 1-6, cf. M. sp. undet. p. 142 pl. xxviii fig. 30 Cambrian (Upper) U.S.A. (Wyoming), Lochman & Hu J. Paleont. 35 1 1961.

Meteoraspis mutica sp. n. p. 116 pl. xxi figs. 25-29 Cambrian (Upper) U.S.A. (Va.), Rasetti J. Paleont. 35 1 1961.

Metopolichas patriarchus (Wyatt-Edgell) lectotype chosen and figd. p. 194 pl. xxv figs. 14–17, Whittard (1).

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Microparia shelvensis sp. n. including Cyclopyge caliginosa of Whittard 1940 partim (pl. 5 figs. 6-8) p. 177 pl. xxiv figs. 3-4, M. nudus sp. n. [may be a synonym of Cyclopyge grandis (Salter) p. 182] with young stages p. 180 pl. xxiv figs. 5-10, M. laevis sp. n. p. 182 pl. xxiv fig. 11 Ordovician (Middle) Britain (Shropshire); C. insolens Cooper referred to M. p. 179, Whittard Palaeontogr. Soc. [Monogr.] 114 (for 1960) 1961.

Miraspis mira m. (Barr.) p. 81, Vaněk.

Modocia centralis (Whitfield) p. 136 pl. xxix figs. 1-39, Lochman & Hu.

Moschoglossis ? rarissima sp. n. p. 233 pl. i fig. 5 Carboniferous (Lower) Czechoslovakia (Moravia), Chlupáč Věstn. Úst. úst. geol. 36 3 1961.

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Mystrocephala stummi sp. n. p. 43 pl. xiv figs. 1-2, M. sp. p. 43 pl. xiv fig. 3 Devonian (Middle) Canada (Ontario), Fagerstrom J. Paleont. 35 1 1961.

Namanoia discussed p. 183, N. incerta sp. n. p. 184 pl. xx figs. 7-12 Cambrian (Lower) U.S.S.R. (Yakutsk), Chernysheva Trud. VSEGEI (ns) 49 1961.

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Nasocephulus discussed and considered unrelated to Proampyx p. 145, Öpik (1).

Neometacanthus R. & E. Richter discussed p. 103, N. (N.) and N. (Rhenops) diagnoses, N. (N.) stellifer (Burmeister) p. 104 pl. iii figs. 1–6 text-fig. 6, **Pillet** (1).

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Nieszkowskia norvegica sp. n. p. 291 pl. ii figs. 1-2 Ordovician (Middle) Norway (Oslo), Nikolaisen Norsk geol. Tidsskr. 41 2-4 1961.

Nieszkowskia stubblefieldi Bancroft referred to Acanthoparypha p. 314, N. variolaris mutica Schmidt also referred p. 316, Dean (1). Nileidae discussed and Illaenopsis provisionally referred p. 218, Whittard (2).

Nileus limbatus Brögger 1882 p. 131 pl. iv fig. 6, Balashova (1).

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Novakella gen. n. [Cyclopygidae] p. 169 for type N. bergeroni (Klouček) for Aeglina b. K. p. 170 pl. xxiii fig. 5, N. incisa sp. n. Ordovician (Middle) Britain (Shropshire) p. 170 pl. xxiii fig. 6, Whittard Palaeontogr. Soc. [Monogr.] 114 (for 1960) 1961.

Novakella Whittard 1961 considered subgen. of Microparia with Degamella subgen, n, a synonym p. 45n, Marek.

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Odontochile rugosa H. & C. p. 83, O. auriculata H. & C., O. sp. p. 84, Vaněk.

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Onnia superba (Bancroft) pusgillensis subsp. n. p. 120 pl. vii figs. 1-6 Ordovician (Middle) Britain (N. England), Dean Proc. Yorks. geol. Soc. 33 2 1961.

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Oryctocara ovata sp. n. p. 220 pl. li figs. 4-6 Cambrian (Middle) U.S.S.R. (Siberia), Chernysheva New species of prehistoric plants . . . Part 2, Moscow 1960.

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Palaeoleninae discussed and taken to include Palaeolenus, Kingaspis, Germaropyge and? Manchurocephalus p. 588 (306), Sdzuy (1).

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Papyriaspididae discussed p. 148 and may be subfam. of Ptychopariidae p. 149, Alokistocaridae a synonym; taken to include Papyriaspis, Tosotychia, Chancia, Alokistocare, Alokistocarella, Amecephalus, Kochina, ? Elrathina, ? Mexicella, Inglefieldia? birdsalli, Öpik (1).

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Ptychagnostus gibbus, P. atavus table I, Carter & Öpik.

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Ptychopariid (new genus) showing alimentary caeca on pygidium p. 426 pl. lxix fig. 2 text-fig. 14 Cambrian (Upper) Australia (Qld.), Öpik (2).

Ptychopariidae—Papyriaspididae may be subfam. p. 149, **Öpik** (1).

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Quadragnostus a synonym of Peronopsis p. 55, Öpik (1).

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Radiolichas Reed 1923 ruled to be masculine in gender and placed on Official List of Generic Names, R. araneiformis Tripp 1957 an objective synonym of Lichas aranea Holzapfel 1895 and placed on Official Index p. 359, Opinion 615.

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Redlichaspis Kobayashi discussed p. 206, Kobayashi (1).

Redlichia Cossmann discussed with synonyms Mesodema and Latiredlichia and list of spp. p. 195, grouped into (i) chinensis group for chinensis, saitoi, paucisegmenta, l'vangi, and (ii) nobilis group for nobilis, kobayashii, coreanica, cylindrica, mai, takooensis, forresti, noetlingi, idonea p. 196, R. forresti (Etheridge) discussed p. 197, R. noetlingi (Redlich) discussed p. 198, R. chinensis Walcott (with synonyms verneaui Mansuy, kingi Ma, manchuriensis Resser & Endo, murakamii R. & E., yunnanensis E. & R., endoi Lul p. 199 pl. xi figs. 3-6 text-fig. 3a, R. nobilis W. with synonym mansuyi E. & R. and including c. of King 1937 p. 201 pl. ix figs. 1-8, pl. x figs. 2-6, 8-11, pl. xiii fig. 19, R. coreanica Saito holotype figd. p. 203 pl. xi fig. 2, R. longispinosa Kobayashi p. 203 text-fig. 3d, R. mai Lu p. 203, R. takooensis L. with probable synonym meitanensis L. p. 204, R. saitoi L. 204 pl. x fig. 1, R. paucisegmenta sp. n. Cambrian (Lower) N. Korea for R. sp. K. 1935 (pl. 21 fig. 8) p. 205 text-fig. 3e, Kobayashi J. Fac. Sci. Tokyo Univ. [2]

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Redlichiacea see Drepanopygidae fam. n.

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Reedia cephalotes (H. & C.), R. bronni (Barr.) p. 83, Vaněk.

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Saoinae Hupé a synonym of Solenopleuropsinae Thoral p. 74, **Dean & Krummenacher**.

Saoinae discussed p. 628 (346), Sdzuy (2).

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Selenopeltis inermis var. inermis (Beyrich) considered to have priority over buchti Barrande p. 197 pl. xxvi fig. 1, 8. i. var. macrophthalmus (Klouček) p. 199 pl. xxvi figs. 2-9, Whittard (2).

Selenoptychus rotundatus Hawle & Corda a synonym of Heterocyclopyge pachycephala (H. & C.) p. 27, Marek.

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Solenagnostus acuminatus Whitehouse partim referred to Ptychagnostus (P.) cassis sp. n. [q.v.] p. 78, Öpik (1).

Solenoparia ? bisulcata sp. n. p. 229 pl. xiii fig. 13 Cambrian (Middle) S. Korea, Kobayashi J. Fac. Sci. Tokyo Univ. [2] 13 2 1961.

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Solenopleuropsidae Thoral validity discussed p. 628 (346), **Sdzuy** (2).

Solenopleuropsinae Thoral 1948 has priority over Saoinae Hupé 1953 p. 74, Dean & Krummenacher.

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Sphaeragnostus cf. cingulatus Olin p. 84, Glimberg.

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Symphysops Raymond discussed and fusion of eyes not considered important generic criterion, S. armata (Barrande 1872) lectotype chosen and figd. including Aeglina ultima Novák MS. p. 54 pl. v figs. 11-13, pl. vi figs. 1-2 text-fig. 21, S. mitrata (N. 1883) neotype chosen and figd. p. 56 pl. vi figs. 3-6

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Syndianella gen. n. [? Redlichiidae] for type S. yunnaneneis sp. n. p. 313 pl. iii fig. 9 Cambrian (Lower) China (Yunnan), Lu Acta palaeont. sinica 9 4 1961.

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Taenicephalites gen. n. [Ptychoparioid, resemblance to Taenicephalus] for type T. macrops sp. n. p. 118 pl. xxv figs. 1-11 text-fig. 1c Cambrian (Upper) U.S.A. (Md.), Undetermined pygidium no. 7 may belong to T. p. 123, Rasetti J. Paleont. 35 1 1961.

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Termierella discussed, T. sevillana sp. n. for T. guadalcanalensis Sdzuy 1958 nom. nud. p. 560 (287) pl. x figs. 4-7 text-fig. 14 Spain (Sierra Morena), T. sp. p. 571 (289) pl. x figs. 8-11 Spain Cambrian (Lower); T. (Jalonella) celtiberica Hupé a synonym of Lusatiops ribbanaus p. 568 (286), Sdzuy Abh. Akad. Wiss. Lit. Mainz [mat.-nat. Kl.] 1961 7.

Termierellinae referred to Ellipsocephalidae with synonym Myopsoleninae, *Bulaiaspis* and *Elganellus* may belong p. 213, **Kobayashi** (1).

Terranovella dorsalis (Hall) with synonyms Lonchocephalus sospita Walcott and T. buttsi Resser p. 118 pl. xxii figs. 7-13, Rasetti.

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Tosotychia gen. n. [Papyriaspididae] for type T. sors sp. n. for Papyriaspis aff. lanceola of Öpik 1956 p. 160 pl. xv figs. 1-7b text-fig. 50 Cambrian (Middle) Australia (Qld.), Öpik Bull. Bur. Min. Res. Aust. 53 1961.

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Triarthrus p. 28, Gilbert-Tomlinson (2).

Trigonocerca—Asaphus goniocercus Meek [q.v.] may belong p. 332, Ross.

Trilobites brevifrons Holm 1882 probably referable to Spirantyx gen. n. p. 194, Whittard (1).

Trilobites praevalens Barrande 1868 (holotype destroyed) may be identical with Kaufmannia lauta gen. et sp. n. p. 235 pl. ii fig. 3 [after B.], Sdzuy (3).

Trimerus (T.) n. sp. A including with query Homalonotus sp. Boettner 1945 p. 78 pl. v figs. 6-8 Silurian (Lower) Paraguay (East), T. ? sp. p. 43, Wolfart Geol. Jb. 78 1961.

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Unguliproctus Erben 1951 raised to generic rank p. 85n, Erben (1).

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Waribole see Cyrtosymbole.

Waribole-mode of Proetid eye-reduction in Cyrtosymbole (W.) and Unguliproetus p. 85, Erben (1).

Westergaardites limitis sp. n. p. 121 pl. v fig. 11 Cambrian (Upper) China (Kweichow), Chien Acta palaeont. sinica 9 2 1961.

Wutingaspis Kobayashi discussed, W. intermedia Chang a synonym of W. tingi K. p. 207, Kobayashi (1).

Wutingaspis malungensis sp. n. p. 312 pl. i figs. 9–10 Cambrian (Lower) China (Yunnan), Lu Acta palaeont. sinica 9 4 1961.

Xenostegium Walcott 1924—proposed that Megalaspis belemnurus White be designated type on basis of Walcott's acknowledged misidentification of this as Asaphus goniocercus Meek (the originally designated type), X. g. discussed and may fit into Trigonocerca p. 332, Ross.

Xiphogonium considered subgenus of Cornuproctus p. 85n, Erben (1).

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Undetermined trilobite p. 94, Henningsmoen.

IV.—ERRATA

Z.R. 84 11 (for 1947).

The article by Prantl, F. (title 40) appeared first in Rozpr. české Akad. [2] 57 1 (for 1947) 1948 and should be so dated.

The article by Prantl, F. & Přibyl, A. (title 42) published in Sborn. Národ. Mus. Praze [B] 3 (for 1947): 1-44 should be dated 1948 as should the included new taxa Areiinae, Cerauroides, Eccoptochiloides, Osekaspis, Pateraspis, Pseudocheirurus, Staurocophalinae and Stubblefieldia.

Z.R. 96 11 (for 1959).

Bull. Soc. Étud. sci. Angers (ns) 2 (for 1959) appeared in 1960 and the article by Pillet, J. (2) in K. H. Erben et al. should be so dated.

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